

### **AMENDMENTS TO THE CLAIMS**

This listing of claims will replace all prior versions, and listings, of claims in the application:

#### **Listing of Claims:**

1. (PREVIOUSLY PRESENTED) A piston pin bushing having an overlay surface exhibiting parameter values at least in a main load area of the bushing measured over a cross-section in an axial direction of the bushing of:

- at a depth of at most 1.800  $\mu\text{m}$ , a bearing ratio amounting to a minimum of 99.0%;
- a depth of roughness core profile amounting to a maximum of 0.30 $\mu\text{m}$ ; and
- a material ratio Mrl of the roughness core profile amounting to a maximum of 8%.

2. (PREVIOUSLY PRESENTED) A piston pin bushing according to claim 1, wherein the material ratio Mrl of the roughness core profile amounts to a maximum of 7%.

3. (PREVIOUSLY PRESENTED) A piston pin bushing according to claim 1 wherein the bearing ratio amounts to a minimum of 99.0% at a depth of at most 0.900  $\mu\text{m}$ .

4. (PREVIOUSLY PRESENTED) A piston pin bushing according to claim 3, wherein the depth of the roughness core profile amounts to a maximum of 0.15  $\mu\text{m}$ .

5. (PREVIOUSLY PRESENTED) A piston pin bushing according to claim 1, wherein the overlay consists of a lead-free copper-based alloy.

6. (PREVIOUSLY PRESENTED) A piston pin bushing according to claim 5, wherein the overlay is selected from the group consisting of a copper-aluminum, a copper-zinc or a copper-tin-zinc alloy.

7. (PREVIOUSLY PRESENTED) A piston pin bushing according to claim 1, wherein a frequency distribution of the roughness profile of the overlay topography exhibits a half width of at most 0.20  $\mu\text{m}$ .

8. (PREVIOUSLY PRESENTED) A piston pin bushing according to claim 1, wherein a frequency distribution of the roughness profile of the overlay topography exhibits a half width of at most 0.10  $\mu\text{m}$ .

9. (WITHDRAWN) A method of producing a piston pin bushing having an overlay surface exhibiting parameter values at least in a main load area of the bushing measured over a cross-section in an axial direction of the bushing of:

- at a depth of at most 1.800  $\mu\text{m}$ , a being ratio amounting to a minimum of 99.0%;
  - a depth of roughness core profile amounting to a maximum of 0.30 $\mu\text{m}$ ; and
  - a material ratio Mrl of the roughness core profile amounting to a maximum of 8%;
- wherein the overlay of the piston pin bushing is finished by a surface treatment method.

10. (WITHDRAWN) A method according to claim 9, wherein the overlay of the piston pin bushing is finished by plateau honing.